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NEWS	2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPplus enhanced with utility model patents from China

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 4 MAY 2007.

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FILE LAST UPDATED: 28 Jun 2007 (20070628/ED)

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=> s acetylation and dendrimer?

69650 ACETYLATION

9536 DENDRIMER?

L1 27 ACETYLATION AND DENDRIMER?

=> d

L1 ANSWER 1 OF 27 CA COPYRIGHT 2007 ACS on STN

AN 146:317121 CA

TI Lactotriose-containing carbosilane dendrimers: Syntheses and lectin-binding activities

AU Yamada, Akihiro; Hatano, Ken; Koyama, Tetsuo; Matsuoka, Koji; Takahashi, Naonori; Hidari, Kazuya I. P. J.; Suzuki, Takashi; Suzuki, Yasuo; Terunuma, Daiyo

CS Area for Molecular Function, Division of Material Science, Graduate School of Science and Engineering, Saitama University, Sakura-ku, Saitama, 338-8570, Japan

SO Bioorganic & Medicinal Chemistry (2007), 15(4), 1606-1614
CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 146:317121

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 27

L1 ANSWER 27 OF 27 CA COPYRIGHT 2007 ACS on STN

AN 116:130381 CA

TI Preparation of siloxane dendrimers
 IN Uchida, Hiroaki; Yoshino, Koji; Kabe, Yoshio
 PA Kao Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 03263430	A	19911122	JP 1990-62250	19900313
	JP 2763646	B2	19980611		
PRAI	JP 1990-62250		19900313		

=> d ti 20-26

L1 ANSWER 20 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI Hyperbranched Thermotropic Liquid Crystalline Polyesters Composed of Aromatic Ester Type Mesogens and Polymethylene Spacers

 L1 ANSWER 21 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI The first organometallic dendrimers: Design and redox functions

 L1 ANSWER 22 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI Utilization of dendritic framework as a multivalent ligand: a functionalized gadolinium(III) carrier with glycoside cluster periphery

 L1 ANSWER 23 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI An infrared spectroscopic study of a hyperbranched, dendrimer-like, polyester and its blends with poly(4-vinylphenol)

 L1 ANSWER 24 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI Average and maximum charge states of arginine-containing dendrimer-like peptide ions formed by electrospray ionization

 L1 ANSWER 25 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI Synthesis and antigenic properties of sialic acid based dendrimers

 L1 ANSWER 26 OF 27 CA COPYRIGHT 2007 ACS on STN
 TI A simple procedure for the preparation of chiral tris(hydroxymethyl)methane derivatives

=> d 22

L1 ANSWER 22 OF 27 CA COPYRIGHT 2007 ACS on STN
 AN 134:71998 CA
 TI Utilization of dendritic framework as a multivalent ligand: a functionalized gadolinium(III) carrier with glycoside cluster periphery
 AU Takahashi, Masaki; Hara, Yusuke; Aoshima, Kengo; Kurihara, Hideo; Oshikawa, Tatsuo; Yamashita, Mitsuji
 CS Department of Materials Science and Chemical Engineering, Faculty of Engineering, Shizuoka University, Shizuoka, 432-8561, Japan
 SO Tetrahedron Letters (2000), 41(44), 8485-8488
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic 22

L1 ANSWER 22 OF 27 CA COPYRIGHT 2007 ACS on STN

AB . . . diethylenetriamine with δ -gluconolactone, using acetic anhydride to protect the hydroxyl groups. The complexes were obtained by heating the mixture of dendrimer ligand and Gd_2O_3 in aqueous solution at 100° . The acetyl groups could be cleaved by NaOMe treatment. The dendrimers, which contain four and twelve glucose moieties on the mol. surface were obtained with good yields in every step. The analyses show the dendritic structure, while the formation of gadolinium chelates was deduced on the basis of HPLC data. The dendrimer-Gd chelates are of interest as contrast agents for MRI studies, with the dendrimer-glycoside cluster acting as carrier of the contrast agent.

ST diethylenetriamine pentaacetate coupling cyclic anhydride
dendrimer prepn; glycoside periphery polyamide dendrimer
chelate lanthanide; gadolinium complex glycoside polyamide
dendrimer prepn

IT Polyamides, preparation
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(dendrimers, glycoside-functionalized; preparation of
glycoside-functionalized polyamide dendrimer multivalent
ligands and complexation with gadolinium and structure and solubility of
chelates)

IT Polymer chains
(hyperbranched; preparation of glycoside-functionalized polyamide
dendrimer multivalent ligands and complexation with gadolinium
and structure and solubility of chelates)

IT Addition reaction
(nucleophilic; preparation of glycoside-functionalized polyamide
dendrimer multivalent ligands and complexation with gadolinium
and structure and solubility of chelates)

IT Dendritic polymers
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polyamides, glycoside-functionalized; preparation of glycoside-
functionalized polyamide dendrimer multivalent ligands and
complexation with gadolinium and structure and solubility of chelates)

IT Acetylation
Amidation
Complexation
Coupling reaction
(preparation of glycoside-functionalized polyamide dendrimer
multivalent ligands and complexation with gadolinium and structure and
solubility of chelates)

IT 220431-60-7P 220431-61-8P 314732-91-7P 314732-92-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of glycoside-functionalized polyamide
dendrimer multivalent ligands and complexation with gadolinium
and structure and solubility of chelates)

IT 314732-93-9P 314748-77-1P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of glycoside-functionalized polyamide dendrimer
multivalent ligands and complexation with gadolinium and structure and
solubility of chelates)

IT 7440-54-2DP, Gadolinium, glycosidyl dendrimer complexes,
preparation 314732-94-0P 314748-78-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of glycoside-functionalized polyamide dendrimer
multivalent ligands and complexation with gadolinium and structure and
solubility of chelates)

IT 90-80-2, δ -Gluconolactone 108-24-7, Acetic anhydride 111-40-0,
Diethylenetriamine 4248-19-5, tert-Butyl carbamate 12064-62-9,
Gadolinium oxide (Gd_2O_3) 132491-90-8 195190-58-0, Diethylenetriamine

pentaacetic acid bis(cyclic anhydride)
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of glycoside-functionalized polyamide dendrimer
multivalent ligands and complexation with gadolinium and structure and
solubility of chelates)

=> d 25 ab

L1 ANSWER 25 OF 27 CA COPYRIGHT 2007 ACS on STN
AB A symposium on solid-phase synthesis on Wang resin was used to construct
dendritic α -thiosialosides which can be used as inhibitors of
influenza virus hemagglutinins. The design of these new hyper-branched
clusters is based on the rational scaffolding of L-lysine core structures
using well established Fmoc-chemical and benzotriazolyl esters as coupling
procedures. One step chain extension of all the lysyl-amino groups with
chloroacetylglcylglycine active ester allowed the introduction of the
required functionality necessary for the coupling to α -thiosialoside
derivative prepared under improved phase transfer catalyzed conditions. Well
defined di-, tetra-, octa- and hexadecavalent dendritic
 α -thiosialosides were thus prepared by a straight forward approach.
The antigenicity of the dendrimers was compared to a known
sialylated polymer used as reference Regioselective 9-O-acetylation
of the octavalent dendrimers was also achieved to provide access
to inhibitor of other strains of influenza virus hemagglutinins.

=> d ti 10-19

L1 ANSWER 10 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Poly(amidoamine) dendrimer-based multifunctional engineered
nanodevice for cancer therapy

L1 ANSWER 11 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Synthesis of perfluorinated functionalized, branched ethers

L1 ANSWER 12 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Synthesis of telechelic and dendritic graft polymers

L1 ANSWER 13 OF 27 CA COPYRIGHT 2007 ACS on STN
TI DNA-Directed Synthesis of Generation 7 and 5 PAMAM Dendrimer
Nanoclusters

L1 ANSWER 14 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Extended π -Conjugated Dendrimers Based on Truxene

L1 ANSWER 15 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Acetylation of Poly(amidoamine) Dendrimers

L1 ANSWER 16 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Soluble dipolar dendrimers with peripheral sulfone groups

L1 ANSWER 17 OF 27 CA COPYRIGHT 2007 ACS on STN
TI ^1H and ^{13}C NMR Spectra of a Hyperbranched Aromatic Polyamide from
p-Phenylenediamine and Trimesic Acid

L1 ANSWER 18 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Hyperbranched architectures for NLO polymers

L1 ANSWER 19 OF 27 CA COPYRIGHT 2007 ACS on STN
TI Synthesis of clustered xenotransplantation antagonists using
palladium-catalyzed cross-coupling of prop-2-ynyl α -D-
galactopyranoside

=> d 15

L1 ANSWER 15 OF 27 CA COPYRIGHT 2007 ACS on STN
AN 139:197903 CA
TI Acetylation of Poly(amidoamine) Dendrimers
AU Majoros, Istvan J.; Keszler, Balazs; Woehler, Scott; Bull, Tricia; Baker, James R., Jr.
CS Center for Biologic Nanotechnology, University of Michigan, Ann Arbor, MI, 48109-0533, USA
SO Macromolecules (2003), 36(15), 5526-5529
CODEN: MAMOBX; ISSN: 0024-9297
PB American Chemical Society
DT Journal
LA English
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ab 15

L1 ANSWER 15 OF 27 CA COPYRIGHT 2007 ACS on STN
AB The precise stoichiometry required for the acetylation of surface amines of a poly(amidoamine) (PAMAM) dendrimer generation 5 (G5) was verified by using potentiometric titration, gel permeation chromatog., and NMR spectroscopy. The average number of primary amine groups, absolute mol. weight, and mol. weight distribution of G5 PAMAM were determined by potentiometric titration and GPC. These fundamental parameters were used to design the stoichiometry of an acetylation reaction that yielded acetylation fractions from 0 to 100% of the primary amines on the macromol. GPC refractive index detector confirmed that the diameter of the dendrimer related inversely to the degree of acetylation. The acetylated dendrimers do not follow the elution behavior of the conventional polymer mols. most probably because of their spherical shape and polycationic nature. This study clarifies the nature of the acetylation reaction and provides a well-defined acylated macromol., which can serve as a scaffold for the development of complex dendrimeric structures.

=> d 13, 16

L1 ANSWER 13 OF 27 CA COPYRIGHT 2007 ACS on STN
AN 140:357830 CA
TI DNA-Directed Synthesis of Generation 7 and 5 PAMAM Dendrimer Nanoclusters
AU Choi, Youngseon; Mecke, Almut; Orr, Bradford G.; Holl, Mark M. Banaszak; Baker, James R., Jr.
CS Department of Biomedical Engineering, School of Engineering, Department of Physics, School of Literature, Art and Science, University of Michigan, Ann Arbor, MI, 48109, USA
SO Nano Letters (2004), 4(3), 391-397
CODEN: NALEFD; ISSN: 1530-6984
PB American Chemical Society
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 16 OF 27 CA COPYRIGHT 2007 ACS on STN
AN 138:89532 CA
TI Soluble dipolar dendrimers with peripheral sulfone groups

AU Lu, Meng; Pan, Yongchun; Peng, Zhonghua
CS Department of Chemistry, University of Missouri-Kansas City, Kansas City,
MO, 64110, USA
SO Tetrahedron Letters (2002), 43(44), 7903-7906
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 138:89532
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ab 13,16

L1 ANSWER 13 OF 27 CA COPYRIGHT 2007 ACS on STN

AB A novel nanostructure was constructed using two different generations of polyamidoamine (PAMAM) dendrimers and three sets of complementary oligonucleotides (34, 50, and 66 bases in length). The oligonucleotides were covalently conjugated to partially acetylated generation 5 and 7 PAMAM dendrimers, and these conjugates were characterized by agarose gel electrophoresis. The agarose gel electrophoresis appearance of these covalently linked oligonucleotide dendrimers was also compared to electrostatically bound oligonucleotide-dendrimer complexes. Equimolar amts. of the G5 and G7 conjugates were then hybridized together to allow for the DNA-directed self-assembly of supramol. clusters. Dynamic light scattering (DLS) anal. indicated that the overall size of the DNA-linked dendrimer clusters tended to increase according to the length of the oligonucleotide used ranging from 30 to 50 nm, which agreed with the diameter of dendrimer nanoclusters predicted by mol. modeling. The DNA-linked novel dendrimer nanoclusters were also examined with tapping-mode atomic force microscopy (AFM) to distinguish the DNA-linked structure from a nonlinked simple G7/G5 dendrimer mixture. AFM image anal. suggested that the distance between the DNA-linked dendrimers was significantly larger than what was seen after simple mixing of G7/G5 dendrimers. The mixture showed a few dendrimers phys. in contact with an interdendrimer distance of 8-10 nm. The interdendrimer distance of the nanoclusters linked with the 50-base-long oligonucleotide pairs was measured to be 21 ± 2 nm, which is in agreement with the theor. length of the oligonucleotides duplex. These results suggest that PAMAM dendrimers can be self-assembled via complementary oligonucleotides to form supramol. nanoclusters.

L1 ANSWER 16 OF 27 CA COPYRIGHT 2007 ACS on STN

AB A dipolar dendron based on meta and para linked poly(Ph acetylene)s with eight electron donor-acceptor pairs in direct conjugations is synthesized through a convergent approach. UV-vis absorption and fluorescence emission spectra of the G1, G2, and G3 nonlinear optical sulfone-containing dendrons are given.